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Deliver to: Examiner Quoc Dinh Hoang
Firm Name: U.S. PATENT AND TRADEMARK OFFICE
Fax Number: (703) 872-9306 Telephone No.: (571) 272-1780
From: Heather M. Molleur
Date: June 1, 2004 Time: _____
Operator: Claire Wallters Matter: 42390P10637
Number of pages including cover sheet: 12
In Re Patent Application of: Thomas N. Marieb et al.
Application No.: 09/739,929
Filed: December 18, 2000
For: Copper Alloys For Interconnections Having Improved
Electromigration Characteristics And Methods Of Making Same

Enclosed are the following documents: Amendment Transmittal, in duplicate,
Fee Transmittal, in duplicate, Amendment and Response, 5 pages.

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being facsimile transmitted to the U.S. Patent and Trademark Office on:

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6/1/2004

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05/01/03

<u>AMENDMENT TRANSMITTAL</u>		<u>PATENT</u>
<div style="display: flex; justify-content: space-between;"><div>Application No.: <u>09/739,929</u></div><div></div></div> <div style="display: flex; justify-content: space-between;"><div>Filing Date: <u>December 18, 2000</u></div><div></div></div> <div style="display: flex; justify-content: space-between;"><div>First Named Inventor: <u>Thomas N. Marieb</u></div><div></div></div> <div style="display: flex; justify-content: space-between;"><div>Examiner's Name: <u>Hoang Quoc Dinh</u></div><div></div></div> <div style="display: flex; justify-content: space-between;"><div>Art Unit: <u>2818</u></div><div></div></div> <div style="display: flex; justify-content: space-between;"><div>Attorney Docket No.: <u>42390P10637</u></div><div></div></div>		
<div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> An Amendment After Final Action (37 CFR 1.116) is attached and applicant(s) request expedited action.</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div><input checked="" type="checkbox"/> Charge any fee not covered by any check submitted to Deposit Account No. 02-2666.</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div><input checked="" type="checkbox"/> Applicant(s) hereby request and authorize the U.S. Patent and Trademark Office to (1) treat any concurrent or future reply that requires a petition for extension of time as incorporating a petition for extension of time for the appropriate length of time and (2) charge all required fees, including extension of time fees and fees under 37 CFR 1.16 and 1.17, for any concurrent or future reply to Deposit Account No. 02-2666.</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Applicant(s) claim small entity status (37 CFR 1.27).</div><div></div></div>		
ATTACHMENTS <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Preliminary Amendment</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div><input checked="" type="checkbox"/> Amendment/Response with respect to Office Action</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Amendment/Response After Final Action (37 CFR 1.116) (reminder: consider filing a Notice of Appeal)</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Notice of Appeal</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> RCE (Request for Continued Examination)</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Supplemental Declaration</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Terminal Disclaimer (reminder: if executed by an attorney, the attorney must be properly of record)</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Information Disclosure Statement (IDS)</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Copies of IDS citations</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Petition for Extension of Time</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div><input checked="" type="checkbox"/> Fee Transmittal Document (that includes a fee calculation based on the type and number of claims)</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Cross-Reference to Related Application(s)</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Certified Copy of Priority Document</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div>Other: _____</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div>Other: _____</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Check(s)</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Postcard (Return Receipt)</div><div></div></div>		
SUBMITTED BY: <div style="display: flex; justify-content: space-between;"><div>BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div>TYPED OR PRINTED NAME: <u>Heather M. Mofleur, Reg. No. 50,432</u></div><div></div></div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"><div>SIGNATURE: <u><i>H M Mofleur</i></u></div><div>DATE: <u>6/1/2004</u></div></div> <div style="display: flex; justify-content: space-between;"><div>ADDRESS: <u>12400 Wilshire Boulevard, Seventh Floor</u></div><div></div></div> <div style="display: flex; justify-content: space-between;"><div><u>Los Angeles, California 90025</u></div><div></div></div> <div style="display: flex; justify-content: space-between;"><div>TELEPHONE NO.: <u>(408) 720-8300</u></div><div></div></div>		

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(10/14/03)

AMENDMENT TRANSMITTAL**PATENT**

Application No.: 09/739,929
Filing Date: December 18, 2000
First Named Inventor: Thomas N. Marich
Examiner's Name: Hoang, Quoc Dinh
Art Unit: 2818
Attorney Docket No.: 42390P10637

- ☐ An Amendment After Final Action (37 CFR 1.116) is attached and applicant(s) request expedited action.
☒ Charge any fee not covered by any check submitted to Deposit Account No. 02-2666.
☒ Applicant(s) hereby request and authorize the U.S. Patent and Trademark Office to (1) treat any concurrent or future reply that requires a petition for extension of time as incorporating a petition for extension of time for the appropriate length of time and (2) charge all required fees, including extension of time fees and fees under 37 CFR 1.16 and 1.17, for any concurrent or future reply to Deposit Account No. 02-2666.
☐ Applicant(s) claim small entity status (37 CFR 1.27).

ATTACHMENTS

- ☐ Preliminary Amendment
☒ Amendment/Response with respect to Office Action
☐ Amendment/Response After Final Action (37 CFR 1.116) (reminder: consider filing a Notice of Appeal)
☐ Notice of Appeal
☐ RCE (Request for Continued Examination)
☐ Supplemental Declaration
☐ Terminal Disclaimer (reminder: if executed by an attorney, the attorney must be properly of record)
☐ Information Disclosure Statement (IDS)
☐ Copies of IDS citations
☐ Petition for Extension of Time
☒ Fee Transmittal Document (that includes a fee calculation based on the type and number of claims)
☐ Cross-Reference to Related Application(s)
☐ Certified Copy of Priority Document
☐ Other: _____
☐ Other: _____
☐ Check(s)
☐ Postcard (Return Receipt)

SUBMITTED BY:

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP

TYPED OR PRINTED NAME: Heather M. Mollcur, Reg. No. 50,432SIGNATURE: *H M Mollcur*
ADDRESS: 12400 Wilshire Boulevard, Seventh FloorLos Angeles, California 90025TELEPHONE NO.: (408) 720-8300DATE: 6/1/2004**CERTIFICATE OF TRANSMISSION**

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Claire Walters 6/1/2004
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S nd to: COMMISSIONER FOR PATENTS, P.O. Box 1450, Alexandria, Virginia 22313-1450

(10/14/03)

FEE TRANSMITTAL FOR FY 2004

(FY 2004 Begins 10/01/2003)

TOTAL AMOUNT OF PAYMENT (\$) 0

Complete if Known:

Application No. 09/739,929Filing Date December 18, 2000First Named Inventor Thomas N. MarichExaminer Name Hoang, Quoc DinhArt Unit 2818Attorney Docket No. 42390P10637 Applicant claims small entity status. See 37 CFR 1.27.**METHOD OF PAYMENT (check all that apply)** Check Credit Card Money Order Other ☒ None Deposit AccountDeposit Account Number: 02-2666Deposit Account Name: ☒ The Director is Authorized to do the following with respect to the above-identified Deposit Account:☒ Charge fee(s) indicated below.☒ Credit any overpayments.☒ Charge any additional fees during the pendency of this application.☒ Any concurrent or future reply that requires a petition for extension of time should be treated as incorporating an appropriate petition for extension of time and all required fees should be charged. Charge fee(s) indicated below except for the filing fee.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Code	Fee (\$)	Code	Fee (\$)		
1001	7702001	385		Utility application filing fee	
1002	3402002	170		Design application filing fee	
1003	5302003	265		Plant filing fee	
1004	7702004	385		Reissue filing fee	
1005	1602005	80		Provisional application filing fee	
SUBTOTAL (1) \$					<u>0</u>

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

				Extra Claims		Fee from below	Fee Paid
Total Claims	<u>7</u>	- 29** =	<u>0</u>		X		
Independent Claims	<u>1</u>	- 3** =	<u>0</u>		X		
Multiple Dependent							
**Or number previously paid, if greater; For Reissues, see below.							
Large Entity		Small Entity					
Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description			
1202	182202	9		Claims in excess of 20			
1201	862201	43		Independent claims in excess of 3			
1203	2902203	145		Multiple dependent claim, if not paid			
1204	862204	43		**Reissue independent claims over original patent			
1205	182205	9		**Reissue claims in excess of 20 and over original patent			

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity		Small Entity		Fee Description	Fee Paid
Code	Fee (\$)	Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1813	8,800	1813	8,800	Request for inter parties reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(g)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	For filing a submission after final rejection (see 37 CFR 1.129(a))	
1814	110	2814	55	Statutory Disclaimer	
1810	770	2810	385	For each additional invention to be examined (see 37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	
1504	300	1504	300	Publication fee for early, voluntary, or normal pub.	
1505	300	1505	300	Publication fee for republication	
1803	130	1803	130	Request for voluntary publication or republication	
1808	130	1808	130	Processing fee under 37 CFR 1.17(i) (except provisionals)	
1454	1,330	1454	1,330	Acceptance of unintentionally delayed claim for priority	
Other fee (specify) _____					
Other fee (specify) _____					
				SUBTOTAL (3)	\$ 0

*Reduced by Basic Filing Fee Paid

SUBMITTED BY:

Typed or Printed Name: Heather M. Mollur

Signature: H. MollurDate: 6/1/2004Reg. Number: 50,432Telephone Number: (408) 720-8300

Send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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PAGE 5/12 * RCVD AT 6/1/2004 6:29:29 PM [Eastern Daylight Time] * SVR:USPTO-EFXXF-1/3 * DNIS:8729306 * CSID:4087208383 * DURATION (mm-ss):03-14

FEE TRANSMITTAL FOR FY 2004

(FY 2004 Begins 10/01/2003)

TOTAL AMOUNT OF PAYMENT (\$) 0

Complete if Known:

Application No. 09/739,929Filing Date December 18, 2000First Named Inventor Thomas N. MariebExaminer Name Hoang, Quoc DinhArt Unit 2818Attorney Docket No. 42390P10637☐ Applicant claims small entity status. See 37 CFR 1.27.**METHOD OF PAYMENT (check all that apply)**☐ Check ☐ Credit Card ☐ Money Order ☐ Other ☒ None☐ Deposit AccountDeposit Account Number : 02-2666

Deposit Account Name:

☒ The Director is Authorized to do the following with respect to the above-identified Deposit Account:☐ Charge fee(s) indicated below.☐ Credit any overpayments.☐ Charge any additional fees during the pendency of this application.☐ Any concurrent or future reply that requires a petition for extension of time should be treated as incorporating an appropriate petition for extension of time and all required fees should be charged.☐ Charge fee(s) indicated below except for the filing fee.**FEE CALCULATION****1. BASIC FILING FEE**

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2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

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Multiple Dependent						
**Or number previously paid, if greater; For Reissues, see below.						
Large Entity		Small Entity				
Fee	Fee	Fee	Fee			
Code	(\$)	Code	(\$)	Fee Description		
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FEE CALCULATION (continued)**3. ADDITIONAL FEES**

<u>Large Entity</u>		<u>Small Entity</u>		<u>Fee Description</u>	<u>Fee Paid</u>
<u>Code</u>	<u>Fee (\$)</u>	<u>Code</u>	<u>Fee (\$)</u>		
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1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	For filing a submission after final rejection (see 37 CFR 1.129(a))	
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1505	300	1505	300	Publication fee for republication	
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1808	130	1808	130	Processing fee under 37 CFR 1.17(i) (except provisionals)	
1454	1,330	1454	1,330	Acceptance of unintentionally delayed claim for priority	
Other fee (specify) _____					
Other fee (specify) _____					
				SUBTOTAL (3)	\$ 0

*Reduced by Basic Filing Fee Paid

SUBMITTED BY:Typed or Printed Name: Heather M. MolleurSignature: H. MolleurDate: 6/1/2004Reg. Number: 50.432Telephone Number: (408) 720-8300

Send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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Appl. No. 09/739,929
Amendment dated June 1, 2004
Reply to Office Action of March 2, 2004

JUN 01 2004

OFFICIAL

42390P10637

PATENT**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re Application of:

Thomas N. Marieb et al.

Conf. No.: 4878

U.S. Serial No: 09/739,929

Examiner: Hoang, Quoc Dinh

Filed: December 18, 2000

Art Unit: 2818

For: COPPER ALLOYS FOR
INTERCONNECTIONS HAVING
IMPROVED ELECTROMIGRATION
CHARACTERISTICS AND METHODS
OF MAKING SAME

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AND RESPONSE

Dear Sir:

This is in response to the Office Action mailed March 2, 2004. Applicant respectfully requests the Examiner to consider the following remarks.

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being facsimile transmitted to the U.S. Patent and Trademark Office on:

Date of Transmission June 1, 2004Claire Wallters

(Typed or printed name of person transmitting paper)

Claire Wallters 6/1/2004

(Signature of person transmitting paper)